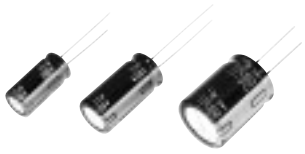
Radial Lead Type

Series: **EB** Type: **A**



■ Features

- Endurance : +105 °C 5000 h to 10000 h
- RoHS directive compliant

■ Specifications

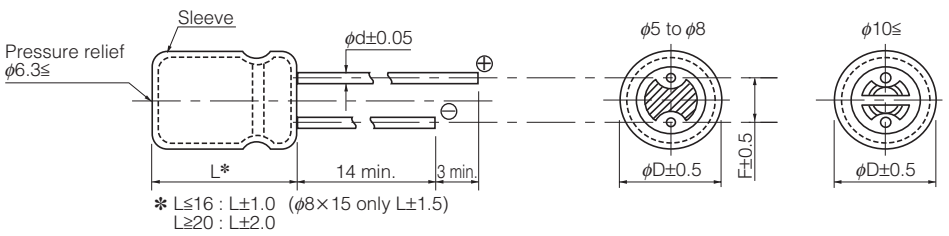
Category Temp. Range	−40 °C to +105 °C	
Rated W.V. Range	10 V.DC to 63 V.DC	
Nominal Cap. Range	0.47 µF to 3300 µF	
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	I ≦ 0.01 CV or 3 (µA) After 2 minutes application of rated working voltage at +20 °C (Whichever is greater)	
tan δ	Please see the attached standard products list	
Endurance	After following life test with DC voltage and +105 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage), when the capacitors are restord to 20 °C, the capacitors shall meet the limits specified below. Duration : ϕ5×11 to ϕ8×11.5 : 5000 hours ϕ5×15 to ϕ6.3×15 : 7000 hours ϕ8×15 to ϕ12.5×25 : 10000 hours	
	Capacitance change	±30 % of initial measured value
	tan δ	≦ 300 % of initial specified value
	DC leakage current	≦ initial specified value
Shelf Life	After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)	

■ Frequency correction factor for ripple current

W. V. (V. DC)	Capacitance (µF)	Frequency (Hz)				
		60	120	1 k	10 k	100 k
10 to 63	0.47 to 10	0.75	1.00	1.40	1.55	1.65
	22 to 470	0.85	1.00	1.20	1.25	1.30
	1000 to 3300	0.95	1.00	1.05	1.10	1.15

■ Dimensions in mm (not to scale)

[mm]



✻ L≦16 : L±1.0 (ϕ8×15 only L±1.5)
L≧20 : L±2.0

(mm)

Body Dia. ϕD	5	6.3	8	10	12.5
Lead Dia. ϕd	0.5	0.5	0.6	0.6	0.6
Lead space F	2.0	2.5	3.5	5.0	5.0

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Sep. 2008

■ Standard Products (Low Voltage)

W.V.	Cap. (±20 %)	Case size		Specification			Lead Length				Part No.	Min. Packaging Q'ty	
		Dia.	Length	Ripple Current (120 Hz) (+105 °C)	tan δ (120 Hz) (+20 °C)	Endurance	Lead Dia.	Lead Space				Straight Leads	Taping
								Straight	Taping ✻B	Taping ✻H			
(V)	(μF)	(mm)	(mm)	(mA r.m.s.)		(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
10	100	5	15	105	0.30	7000	0.5	2.0	5.0	2.5	EEUEB1A101( )	200	2000
		5	11	66	0.30	5000	0.5	2.0	5.0	2.5	EEUEB1A101S( )	200	2000
	220	6.3	15	152	0.30	7000	0.5	2.5	5.0	2.5	EEUEB1A221( )	200	2000
		6.3	11.2	100	0.30	5000	0.5	2.5	5.0	2.5	EEUEB1A221S( )	200	2000
	470	8	15	278	0.30	10000	0.6	3.5	5.0		EEUEB1A471( )	200	1000
		8	11.5	180	0.30	5000	0.6	3.5	5.0		EEUEB1A471S( )	200	1000
	2200	12.5	20	540	0.32	10000	0.6	5.0	5.0		EEUEB1A222( )	200	500
	3300	12.5	25	802	0.34	10000	0.6	5.0	5.0		EEUEB1A332( )	200	500
16	1000	10	20	430	0.25	10000	0.6	5.0	5.0		EEUEB1C102( )	200	500
	2200	12.5	25	706	0.27	10000	0.6	5.0	5.0		EEUEB1C222( )	200	500
25	47	5	15	78	0.22	7000	0.5	2.0	5.0	2.5	EEUEB1E470( )	200	2000
		5	11	55	0.22	5000	0.5	2.0	5.0	2.5	EEUEB1E470S( )	200	2000
	100	6.3	15	135	0.22	7000	0.5	2.5	5.0	2.5	EEUEB1E101( )	200	2000
		6.3	11.2	95	0.22	5000	0.5	2.5	5.0	2.5	EEUEB1E101S( )	200	2000
	220	8	11.5	125	0.22	5000	0.6	3.5	5.0		EEUEB1E221S( )	200	1000
	330	8	15	255	0.22	10000	0.6	3.5	5.0		EEUEB1E331( )	200	1000
	470	10	16	321	0.22	10000	0.6	5.0	5.0		EEUEB1E471( )	200	500
	1000	12.5	20	498	0.22	10000	0.6	5.0	5.0		EEUEB1E102( )	200	500
35	33	5	15	66	0.18	7000	0.5	2.0	5.0	2.5	EEUEB1V330( )	200	2000
		5	11	46	0.18	5000	0.5	2.0	5.0	2.5	EEUEB1V330S( )	200	2000
	220	8	15	197	0.18	10000	0.6	3.5	5.0		EEUEB1V221( )	200	1000
	330	10	16	278	0.18	10000	0.6	5.0	5.0		EEUEB1V331( )	200	500
	470	10	20	349	0.18	10000	0.6	5.0	5.0		EEUEB1V471( )	200	500
	1000	12.5	25	586	0.18	10000	0.6	5.0	5.0		EEUEB1V102( )	200	500
50	0.47	5	11	4	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1HR47S( )	200	2000
	1	5	11	8	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H1R0S( )	200	2000
	2.2	5	11	15	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H2R2S( )	200	2000
	3.3	5	11	18	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H3R3S( )	200	2000
	4.7	5	11	18	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H4R7S( )	200	2000
	10	5	11	27	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H100S( )	200	2000
	22	5	15	55	0.15	7000	0.5	2.0	5.0	2.5	EEUEB1H220( )	200	2000
		5	11	39	0.15	5000	0.5	2.0	5.0	2.5	EEUEB1H220S( )	200	2000
	47	6.3	15	87	0.15	7000	0.5	2.5	5.0	2.5	EEUEB1H470( )	200	2000
		6.3	11.2	61	0.15	5000	0.5	2.5	5.0	2.5	EEUEB1H470S( )	200	2000
	100	8	11.5	99	0.15	5000	0.6	3.5	5.0		EEUEB1H101S( )	200	1000
	220	10	16	234	0.15	10000	0.6	5.0	5.0		EEUEB1H221( )	200	500
	330	10	20	293	0.15	10000	0.6	5.0	5.0		EEUEB1H331( )	200	500
	470	12.5	20	370	0.15	10000	0.6	5.0	5.0		EEUEB1H471( )	200	500
63	0.47	5	15	6	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1JR47( )	200	2000
		5	11	4.5	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1JR47S( )	200	2000
	1	5	15	12	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J1R0( )	200	2000
		5	11	9	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J1R0S( )	200	2000
	2.2	5	15	22	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J2R2( )	200	2000
		5	11	16.5	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J2R2S( )	200	2000
	3.3	5	15	30	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J3R3( )	200	2000
		5	11	20	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J3R3S( )	200	2000
	4.7	5	15	30	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J4R7( )	200	2000
		5	11	23	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J4R7S( )	200	2000
	10	5	15	46	0.12	7000	0.5	2.0	5.0	2.5	EEUEB1J100( )	200	2000
		5	11	30	0.12	5000	0.5	2.0	5.0	2.5	EEUEB1J100S( )	200	2000
	22	6.3	15	55	0.12	7000	0.5	2.5	5.0	2.5	EEUEB1J220( )	200	2000
		6.3	11.2	40	0.12	5000	0.5	2.5	5.0	2.5	EEUEB1J220S( )	200	2000
	33	6.3	15	71	0.12	7000	0.5	2.5	5.0	2.5	EEUEB1J330( )	200	2000
		6.3	11.2	50	0.12	5000	0.5	2.5	5.0	2.5	EEUEB1J330S( )	200	2000
	47	8	15	94	0.12	10000	0.6	3.5	5.0		EEUEB1J470( )	200	1000
		8	11.5	80	0.12	5000	0.6	3.5	5.0		EEUEB1J470S( )	200	1000
	100	8	15	180	0.12	10000	0.6	3.5	5.0		EEUEB1J101( )	200	1000
	220	10	20	292	0.12	10000	0.6	5.0	5.0		EEUEB1J221( )	200	500
	330	12.5	20	381	0.12	10000	0.6	5.0	5.0		EEUEB1J331( )	200	500
	470	12.5	25	454	0.12	10000	0.6	5.0	5.0		EEUEB1J471( )	200	500

Endurance : 105 °C ϕ5×11 to ϕ8×11.5=5000 h, ϕ5×15 to ϕ6.3×15=7000 h, ϕ8×15 to ϕ12.5×25=10000 h
When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, H=2.5 mm.
The taping dimensions are explained on p.178 of our Catalog. Please use it as a reference guide.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.